derived from Humicola insolens.--

-33. A DNA construct encoding an endoglucanase enzyme, wherein said construct has a sequence selected from the group consisting of:

- (a) the sequence of SEQ ID NO:3; and
- (b) a sequence which hybridizes to the sequence of SEQ ID NO:3 at 40°C in 20% formamide-50 mM sodium phosphate pH 6.8.—

--54. A DNA construct as defined in claim 53, wherein said sequence is derived from Fusarium.--

--55. A DNA construct as defined in claim 54, wherein said sequence is derived from Fusarium oxysporum.—

--56. A DNA construct encoding an endoglucanase enzyme, wherein said construct comprises a sequence from which a polymerase chain reaction (PCR) fragment may be amplified using a set of sense and antisense oligonucleotide primers selected from the group consisting of:

- (a) sense primer SEQ ID NO:17 and antisense primer SEQ ID NO:21;
- (b) sense primer SEQ ID NO:18 and antisense primer SEQ ID NO:22;
- (c) sense primer SEQ ID NO:17 and antisense primer SEQ ID NO:23;
- (d) sense primer SEQ ID NO:18 and antisense primer SEQ ID NO:24;
- (e) sense primer SEQ ID NO:19 and antisense primer SEQ ID NO:23; and
- (f) sense primer SEQ ID NO:20 and antisense primer SEQ ID NO:24.--

amplified using set (e) or (f) has a size of at least 159 base pairs. --



amplified using set (a) or (b) has a size of at least 288 base pairs--

derived from a genus selected from the group consisting of Humicola, Trichoderma, Myceliopthora, Phanerochaete, Schizophyllum, Penicillium, Aspergillus, and Geotricum—

A vector comprising a DNA construct as defined in claim 50.--

A host cell transformed with a vector as defined in claim 62--

A method for producing an endoglucanase enzyme, said method comprising: (a) culturing a cell as defined in claim 3, under conditions suitable for expression of said construct, and (b) recovering the enzyme from the culture.--

A host cell transformed with a vector as defined in claim \$5.--

A method for producing an endoglucanase enzyme, said method comprising: (a) culturing a cell as defined in claim 6, under conditions suitable for expression of said construct, and (b) recovering the enzyme from the culture.--

A vector comprising a DNA construct as defined in claim 56.—

A host cell transformed with a vector as defined in claim 68.—

A method for producing an endoglucanase enzyme, said method comprising: (a) culturing a cell as defined in claim 3, under conditions suitable for expression of said construct, and (b) recovering the enzyme from the culture.--

